



Excellence in Compliance Testing

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## **Certification Exhibit**

**FCC ID: 2AHFM-BTCENMDB**

**FCC Rule Part: 15.247**

**ACS Project Number: 15-3053**

Manufacturer: Kaba Mas LLC  
Model: Cencon MDB 30N

## **RF Exposure**

**General Information:**

Applicant: Kaba Mas LLC

Device Category: Mobile

Environment: General Population/Uncontrolled Exposure

**Technical Information:**

Antenna Type: PCB meandering trace

Antenna Gain: -1.0 dBi

Maximum Transmitter Conducted Power: -4.12 dBm, 0.4 mW

Maximum System EIRP: -5.12 dBm, 0.31 mW

Exposure Conditions: Greater than 20 centimeters

**MPE Calculation**The Power Density (mW/cm<sup>2</sup>) is calculated as follows:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

MPE Calculator for Mobile Equipment Limits for General Population/Uncontrolled Exposure*							
Transmit Frequency (MHz)	Radio Power (dBm)	Power Density Limit (mW/Cm <sup>2</sup> )	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )
2440	-4.12	1.00	0.39	-1	0.794	20	0.001

**Installation Guidelines**

The installation manual should contain text similar to the following advising how to install the equipment to maintain compliance with the FCC RF exposure requirements:

**RF Exposure**

In accordance with FCC requirements of human exposure to radio frequency fields, the radiating element shall be installed such that a minimum separation distance of 20 centimeters will be maintained.

**Conclusion**

This device complies with the MPE requirements by providing adequate separation between the device, any radiating structure and the general population.